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Legislative Testimony of the Connecticut Green Bank

Energy and Technology Committee March 4, 2021

Regarding Senate Bill 882 AN ACT CONCERNING CLIMATE CHANGE MITIGATION AND HOME ENERGY AFFORDABILITY

As the nation's first green bank, the Connecticut Green Bank ("Green Bank") leverages the limited public resources it receives to attract multiples of private investment to scale up clean energy deployment. Since its inception, the Green Bank has mobilized nearly \$2.0 billion of investment into Connecticut's clean energy economy at a 7 to 1 leverage ratio of private to public funds, supported the creation of over 23,000 direct, indirect and induced jobs, reduced the energy burden on over 55,000 families and businesses, deployed over 430 MW of clean renewable energy, helped avoid nearly 9.0 million tons of CO2 emissions over the life of the projects, and generated nearly \$100 million in individual income, corporate, and sales tax revenues to the State of Connecticut.¹

The Green Bank **supports Senate Bill No. 882**, in particular Section 1 that codifies a zeroemissions electric sector for the state by the year 2040. This would enshrine in statute a target planned toward by Governor Lamont's Executive Order 3, and by the Department of Energy and Environmental Protection's ("DEEP's") draft 2020 Integrated Resources Plan ("IRP"). We believe this target to be reasonable and achievable.

Rapid electric sector decarbonization is a well-recognized, mainline strategy for states and nations to mitigate climate change. The power sector is relatively centralized, with compliance mechanisms and other policy tools already present; this makes the electric sector an important early mover supporting emissions reductions in other, harder-to-decarbonize sectors such as transportation and building heating and cooling.

Please find attached to this testimony the Green Bank's Impact Report for FY 2020, Green Liberty Bonds Fact Sheet, and the 2020 Key Benefits Fact Sheet from the Joint Committee.

Questions on this document may be submitted to the Green Bank's Legislative Liaison Matt Macunas, reachable at matt.macunas@ctgreenbank.com or at (860) 257-2889.

¹ For more up-to-date details on the Green Bank's impact, go to www.ctgreenbank.com/MAYA





Green Bank Impact Report

Since the Connecticut Green Bank's inception through the bipartisan passage of Public Act 11-80 on July 1, 2011, we have accelerated the deployment of clean energy to benefit families, businesses, and our communities. The impact of our green bank innovation is shown below in terms of investment, economic development, and environmental protection from FY 2012 through FY 2020.

INVESTMENT IN CONNECTICUT

Investment Since inception, the Green Bank has mobilized **\$1.94** billion of investment into the State's economy.

Leverage ratio The Green Bank's leverage ratio is the relationship between private investment and Green Bank investment.



For every \$1 of Green Bank investment, we attract \$6.60 of private investment.

Tax revenues The Green Bank's activities have helped generate an estimated **\$96.7 million** in state tax revenues.



\$24.2 million sales taxes

ECONOMIC DEVELOPMENT

Jobs The Green Bank has supported the creation of more than **23,000** direct, indirect, and induced job-years.

23,387 direct, indirect and induced job years



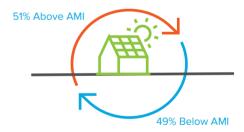
Energy burden The Green Bank has reduced the energy costs on families, businesses, and our communities.





375+
businesses

Accessible and affordable The Green Bank has supported residential solar PV installations to achieve income parity against area median income (AMI).



ENVIRONMENTAL PROTECTION

Deployment The Green Bank has accelerated the growth of clean energy to more than **434** MW.



Pollution The Green Bank has helped reduce air emissions that cause climate change and worsen public health, including 8.4 million pounds of SOx and 9.7 million pounds of NOx.

8.9 million tons of CO₂

which equals

134 million tree seedlings grown for 10 years

NOx

1.7 millionpassenger vehicles
driven for one year

Public health The Green Bank has improved the lives of families, helping them avoid sick days, hospital visits, and even death.



\$232.7 - \$525.4 million of lifetime public health value created

Learn more by visiting ctgreenbank.com/strategy-impact/impact



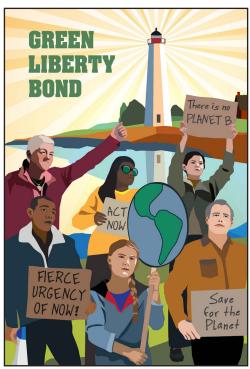
Democratizing Investment to Confront Climate Change with Green Liberty Bonds.

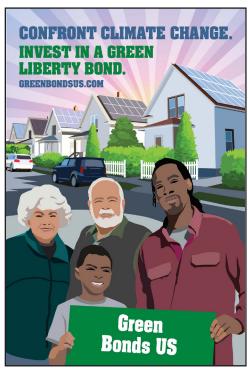
To create a new way for everyday citizens to invest in confronting climate change, the Green Bank launched the Green Liberty Bond in 2020. The Green Liberty Bond subcategory of green bonds is sold directly to the people, the proceeds of which are independently certified as financing projects with climate and environmental benefits.

Key Facts:

- \$16,795,000 of Green Liberty Bonds sold in July 2020 to retail and institutional investors in Connecticut and across the country.
- The inaugural issuance sold-out in two days.
- Demand was so strong that the supply of bonds could not meet the interest of those seeking to invest in Connecticut's green economy.
- Priority was given to Connecticut residents, and their orders for nearly \$5 million of bonds were filled first.
- Bonds were sold in \$1,000 denominations to allow greater access for all interested investors.
- Proceeds from this issuance supported the Residential Solar Investment Program (RSIP) which provides incentives to Connecticut homeowners to go solar to save money on their electricity bills.
- The marketing campaign used poster images (at right) in the style of War Bond posters from the 1940s.







ENERGY EFFICIENCY IS THE LOWEST

COST ENERGY RESOURCE

At an average of 6 cents/kWh, it is less expensive to save energy through Connecticut's existing, award-winning efficiency programs than it is to generate it through any other means.



Every \$1.00 collected results in an additional \$4.84 of clean energy investment

This investment by residential, business and municipal energy customers improves the quality of life in Connecticut.





Clean energy investment supports Connecticut jobs in HVAC, electrical, manufacturing, insulation, weatherization and solar industries.¹



\$6.2 Billion increase to the gross state product

Generated by the Conservation and Load Management Plan (Eversource, CNG, SCG and UI) and the Comprehensive Plan (Connecticut Green Bank).²



Energy savings equivalent to a 122 MW power plant

This is enough energy to power approximately 40,923 homes for a year.



Supporting our state's drive towards carbon neutrality.

\$72 Million in Connecticut tax revenues

Generated from energy efficiency, renewable and financing measures supported by the Conservation and Load Management Plan (Eversource, CNG, SCG, UI) and the Comprehensive Plan (Connecticut Green Bank) ³





Together, Eversource, CNG, SCG, UI, the Energy Efficiency Board and the Connecticut Green Bank make Connecticut a better place to live and work.





The numbers presented are from the implementation of the 2020 Conservation & Load Management Plan (C&LM) administered by Eversource, CNG, SCG and UI and the 2020 Comprehensive Plan administered by the CT Green Bank. These numbers reflect 2020 annual savings and benefits calculated from C&LM and CT Green Bank reporting.

- 1 2020 CT Clean Industry Energy Report
- 2 2020 Environment Northeast (ENE) (Based on updated formula data.)
- 3 Based on the 2019 Navigant Study